LIGHTING A WINDOWLESS BUILDING

Some interesting problems in lighting have been solved in the interior illumination of a new windowless office building of the Hershey Chocolate Corporation. It was found that total artificial lighting was better than a combination of artificial lighting and daylight (as the latter has considerable variation of intensity).

There will be maintained at the working level of each desk an intensity of 20 footcandles, which is considered good practice for office work. The lighting will be almost completely indirect, using a combination fixture which contains both mercury vapor and Mazda lamps. The reason for this is that incandescent lights give little of the violet and blue whereas the mercury vapor is weak in the orange and red part of the spectrum, but strong in the violet and blue. A combination of the two within the same fixture approaches daylight and gives a far better effect than any single source. Within each fixture there is one 750-watt Mazda lamp, and one 300-watt mercury lamp, making a total wattage of 1050.

Should the source of current fail while the employees are at work, an automatic throw-over switch will re-establish current from an entirely different source.